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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/072,409	02/11/2002	Zhong Li	01-24	2903
75	67/02/2003			
Andrew Alexander Andrew Alexander & Associates 3124 Kipp Avenue			FXAMINER	
			TRAN, LEN	
P.O. Box 2038				
Lower Burrell, PA 15068			ART UNIT	PAPER NUMBER
			1725	
			DATE MAILED: 07/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
·	10/072,409	LI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Len Tran	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely, the mailing date of this communication, D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 6/6/0	<u>03</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).				
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	r (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bryant et al (6,264,765) in view of Yasuhara et al (US 6,290,784).

Bryant et al disclose the method for producing an aluminum alloy, AA5754 alloy (table 2), comprising the steps of providing a source of molten aluminum, providing a caster, rolling the caster into a sheet product, continuously annealing the sheet product at a temperature in a controlled temperature range, measuring the degree of annealing of the sheet product (col. 5,

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lines 55-60), relaying the signal to the controller (23), wherein in the controller, comparing the signal to previous signals relating to degree of annealing of the sheet product to provide a comparison, and in response to the comparison, maintaining or changing the temperature upward or downward to produce desired annealing (col. 5, lines 40-67). The hot mill entry temperature is in the range of 700 to 1100 degrees C (col. 6, line 23). The twin belt casting is to produce a slab of 0.2 to 2 inches thick (col. 4, line 41). Hot rolling of the slab to a thickness in the range of 0.01 to 0.25 inch (col. 4, line 46).

Bryant et al fail to teach measuring degree of recrystallization of the sheet product on a continuous basis to provide a recrystallization related signal.

Bryant et al disclose other variables besides annealing temperature can be used for measurement. However, Bryant e al is silent to the variables being the degree of recrystallization.

Yasuhara et al disclose measuring the degree of recrystallization for the purpose of monitoring the working temperature (col. 9, lines 37-43, col. 10, lines 23-31).

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to measure the degree of recrystallization as taught by Yasuhara et al, in Bryant et al in order to monitor the strip condition.

4. Claims 12 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Bryant et al (US '765) as applied to claim 1 above in paragraph 3, and further in view of Kamat (US 5,634,991).

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Bryant et al disclose the claimed invention above, but fail to teach cold rolling the hot strip after annealing step to a gauge in the range of 0.01 to 0.16 inch.

However, Kamat discloses the method of cold roll after annealing and having a final gauge of 0.02 inch for the purpose of improving formability.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to have cold rolled after annealing as taught by Kamat, in Bryant et al in order to improve formability.

## Response to Arguments

5. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

#### Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (703)605-1175. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3602 for regular communications and (703)305-3602 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran Examiner Art Unit 1725

LT June 23, 2003